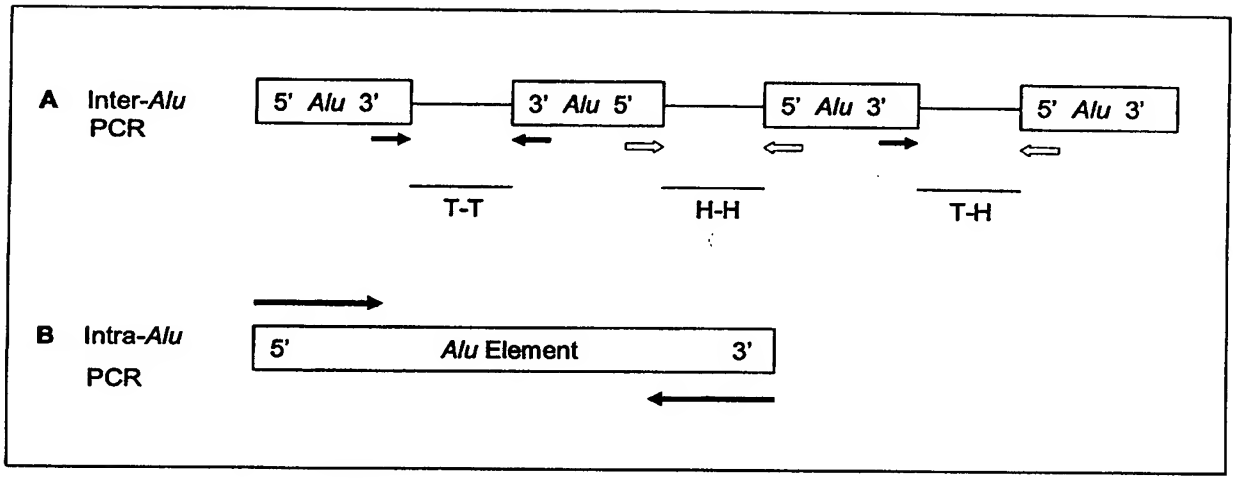

A
Inter-Alu PCR
5' Alu 3'
3' Alu 5'
5' Alu 3'
5' Alu 3'
T-T
H-H
T-H
B
Intra-Alu PCR
5'
Alu Element
3'

Figure 1

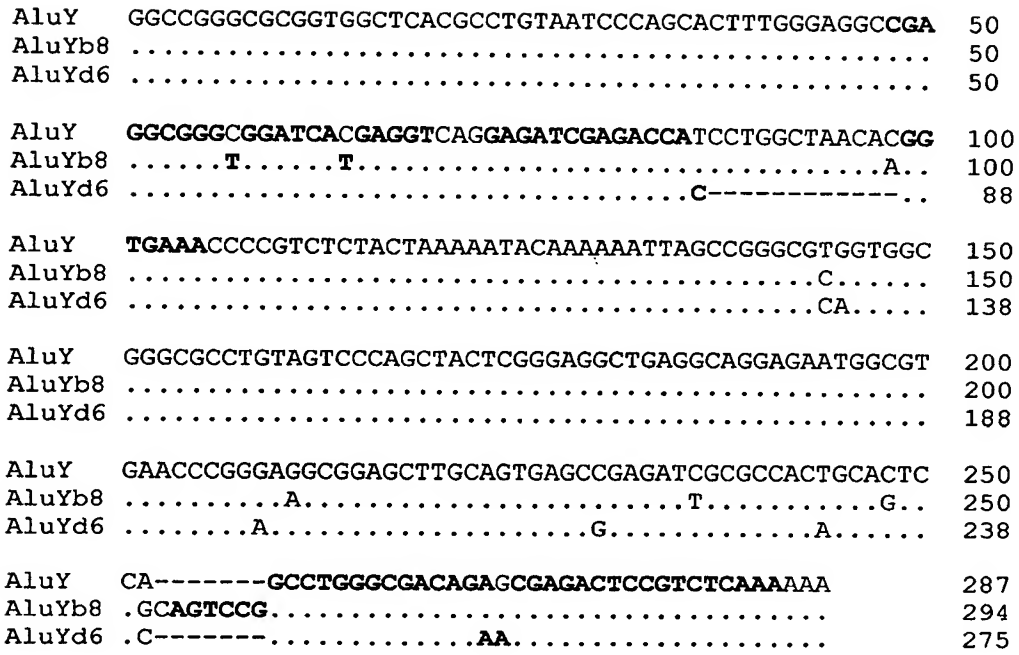

AluY GGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGA 50
AluYb8 50
AluYd6 50
AluY GGCGGGCGGATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGG 100
AluYb8 ......T......T.....A.. 100
AluYd6 .....C----------.. 88
AluY TGAAACCCCGTCTCTACTAAAAATACAAAAAATTAGCCGGGCGTGGTGGC 150
AluYb8 .....C..... 150
AluYd6 .....CA..... 138
AluY GGGCGCCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCGT 200
AluYb8 200
AluYd6 188
AluY GAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCGCGCCACTGCACTC 250
AluYb8 .....A.....T.....G.. 250
AluYd6 .....A.....G.....A..... 238
AluY CA-------GCCTGGGCGACAGAGCGAGACTCCGTCTCAAAAAA 287
AluYb8 .GCAGTCCG..... 294
AluYd6 .C-------.....AA..... 275

Figure 2

Figure 3A

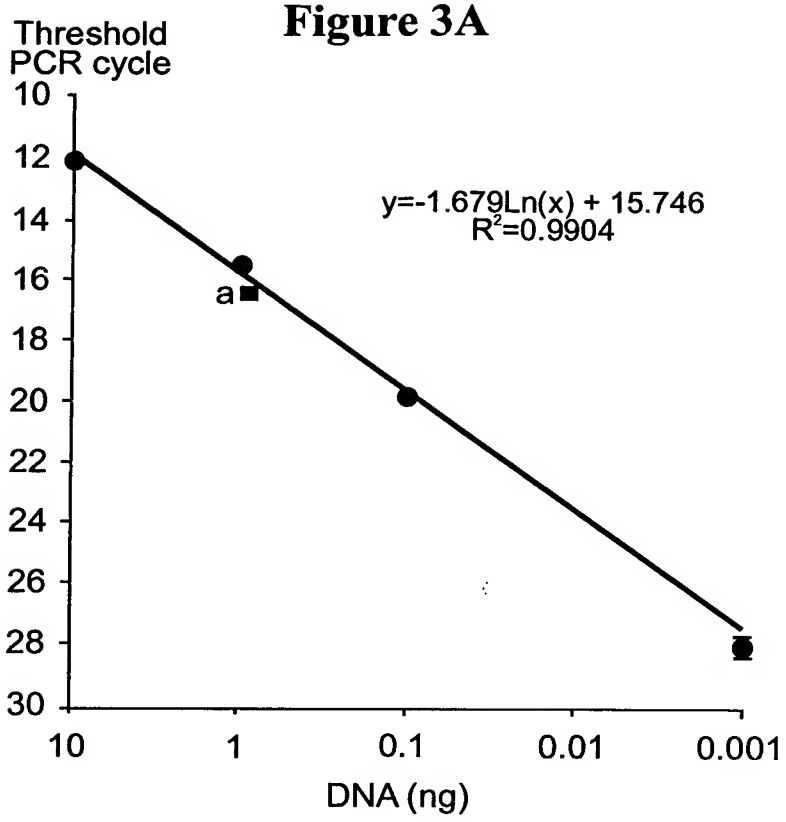


Figure 3B

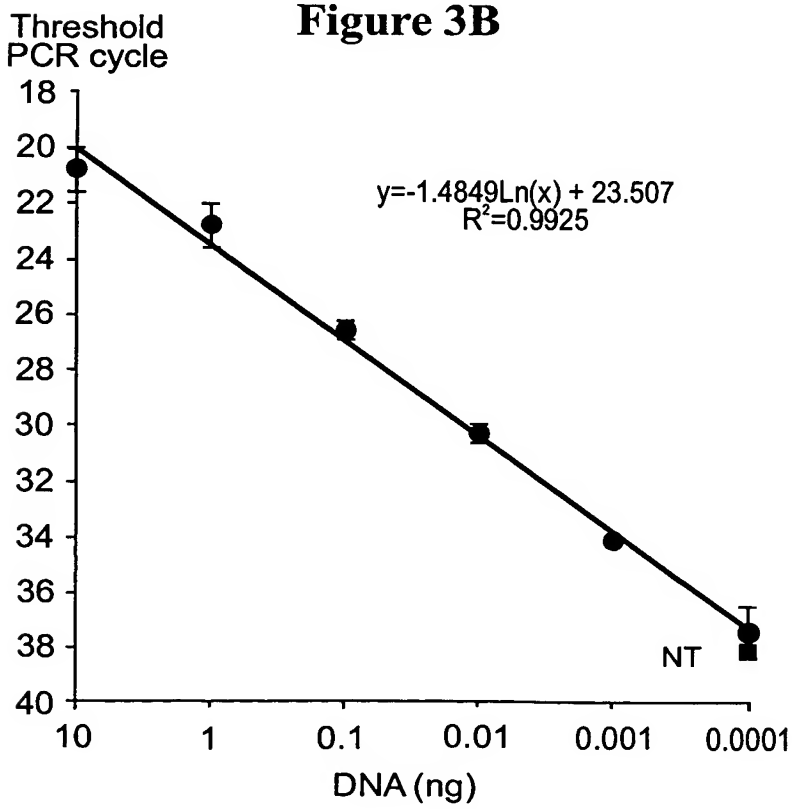


Figure 3C

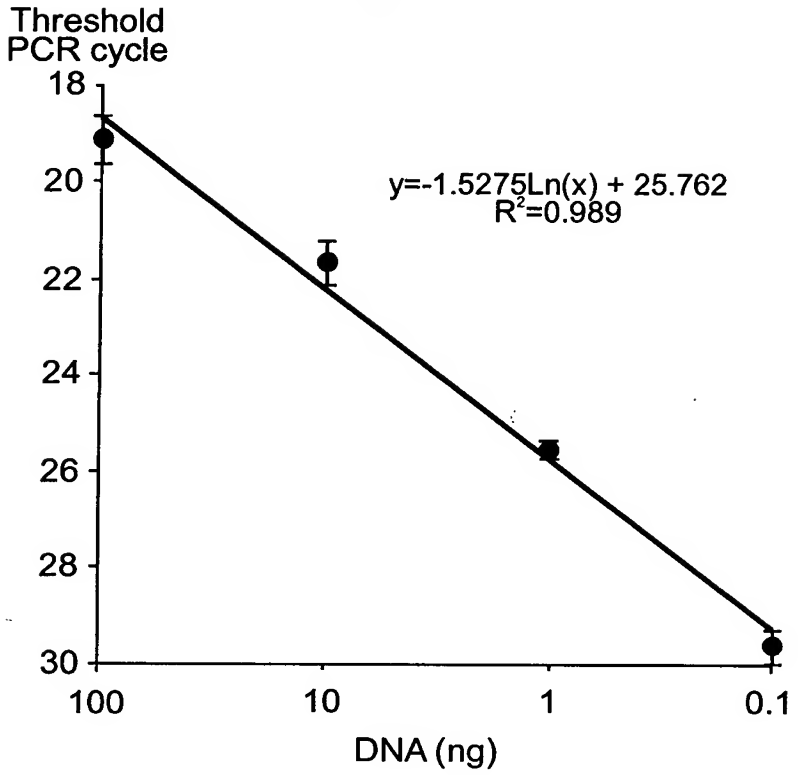

Threshold
PCR cycle
18
20
22
24
26
28
30
y=-1.5275Ln(x) + 25.762
R²=0.989
100
10
1
0.1
DNA (ng)

Figure 4A

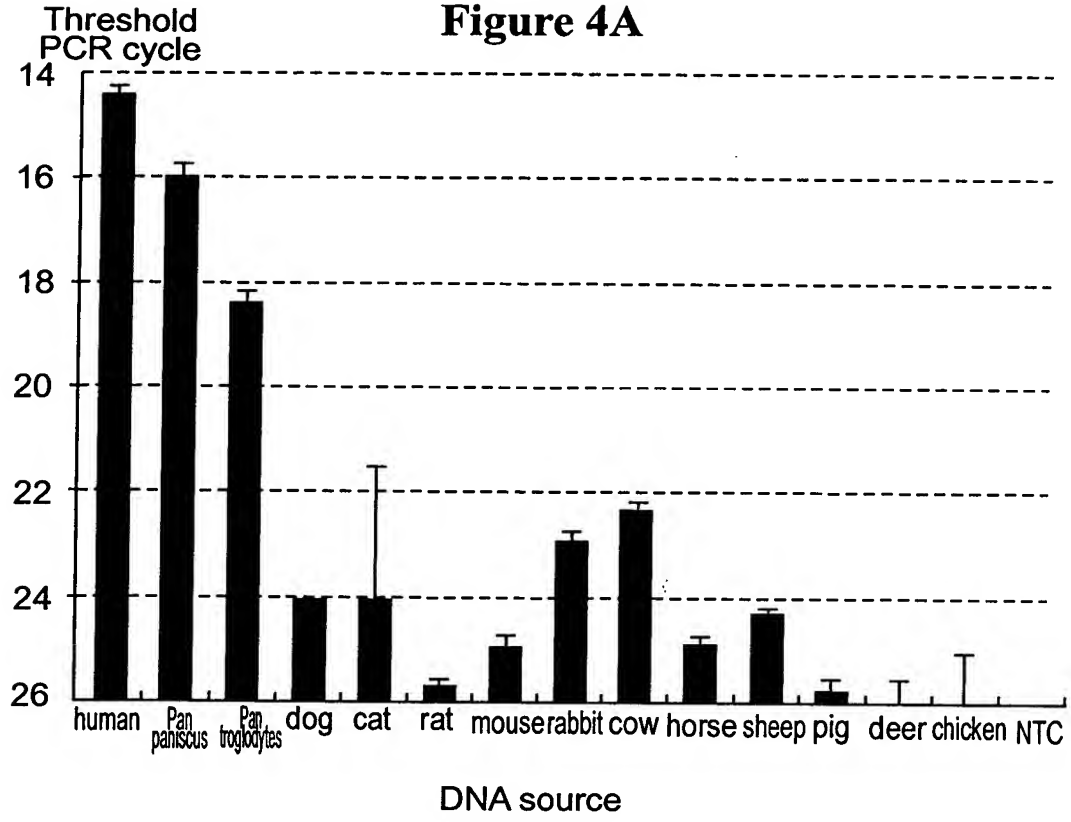


Figure 4B

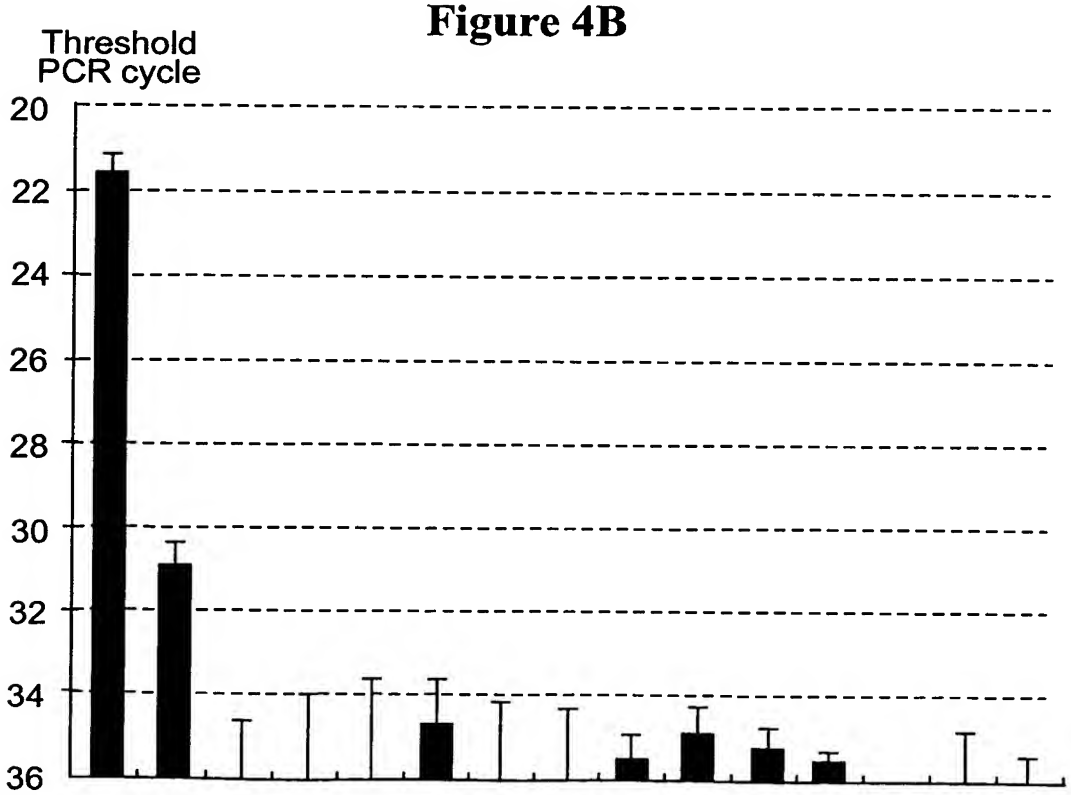


Figure 4C

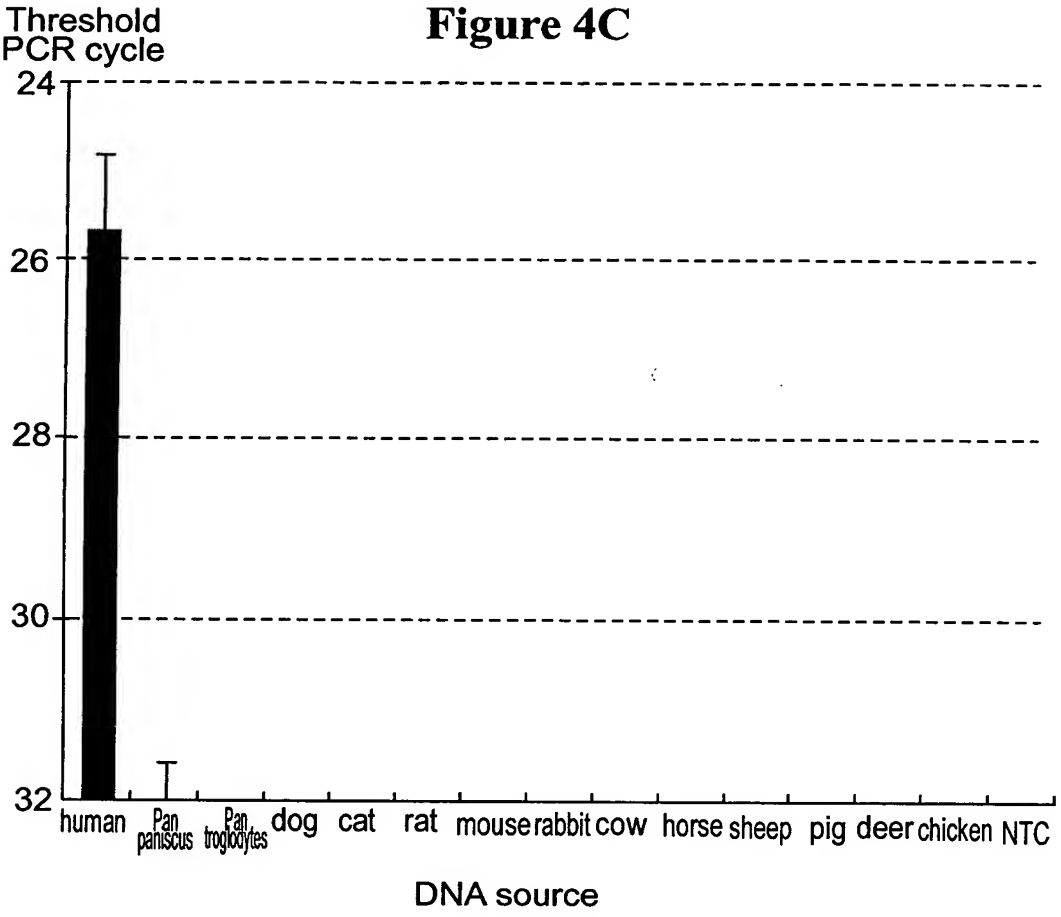
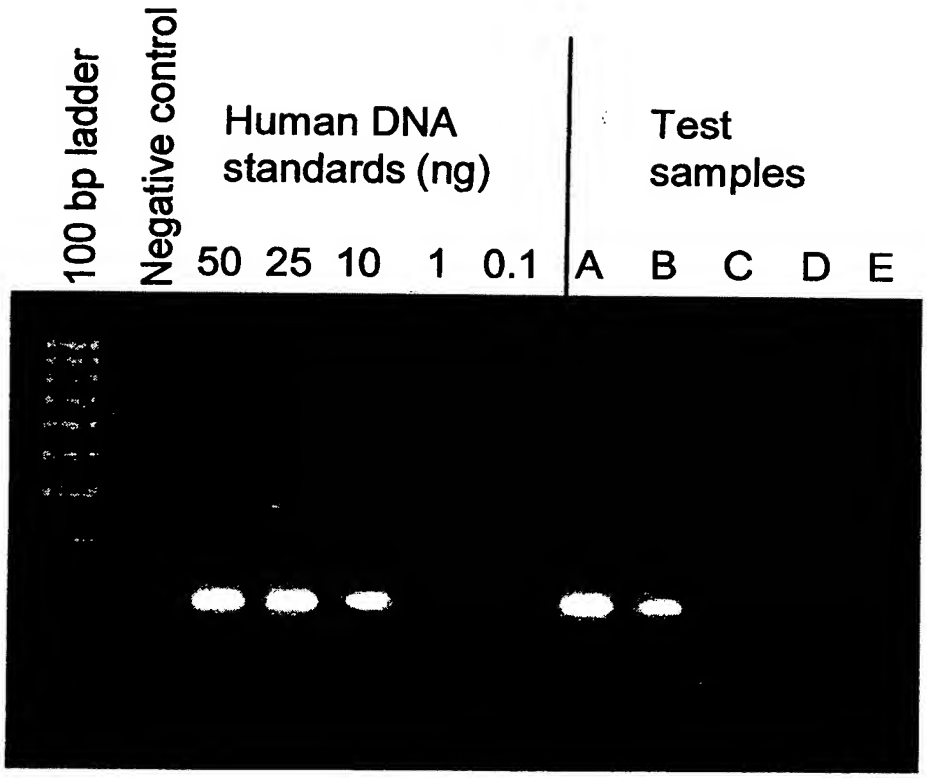

Threshold PCR cycle
24
26
28
30
32
human
Pan paniscus
Pan troglodytes
dog
cat
rat
mouse
rabbit
cow
horse
sheep
pig
deer
chicken
NTC
DNA source

Figure 5


100 bp ladder
Negative control
Human DNA standards (ng)
50 25 10 1 0.1
Test samples
A B C D E